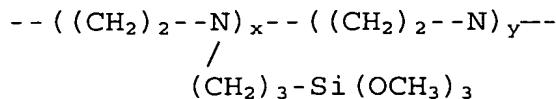


What is claimed:

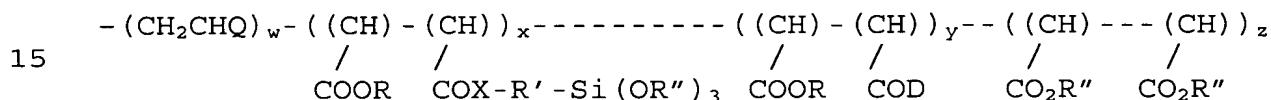
1. A polymer for the reduction of aluminosilicate containing scale according to the formula:

5



10 where $x = 0.5\text{-}20\%$, $y = 99.5\text{-}80\%$.

2. A polymer for the reduction of aluminosilicate containing scale according to formula:



where

$w = 1\text{-}99.9\%$, $x = 0.1\text{-}50\%$, $y = 0\text{-}50\%$, $z = 0\text{-}50\%$; and

20 $Q = \text{C1-C10 alkyl, aryl, amide, acrylate, ether, COXR where X=O or NH and R=H, C1-C10 alkyl or aryl, or any other substituent; R = H, Na, K, NH}_4$;

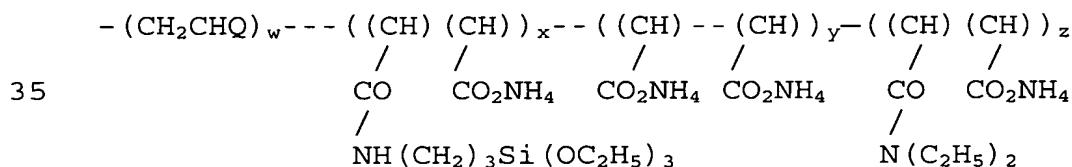
$X = \text{NH, NR'' or O;}$

25 $R' = \text{C1-C10 alkyl, or aryl;}$

$R'' = \text{H, C1-C3 alkyl, aryl, Na, K or NH}_4$; and

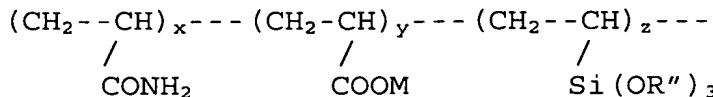
$D = \text{NR''}_2 \text{ or OR''}, \text{ with the proviso that all R and R'' groups do not have to be the same.}$

30 3. The polymer for the reduction of aluminosilicate containing scale according to the formula:



40 where $w = 1\text{-}99.9\%$, $x = 0.1\text{-}50\%$, $y = 0\text{-}50\%$, $z = 0\text{-}50\%$; and Q is phenyl.

4. A polymer for the reduction of aluminosilicate containing scale according to the formula:



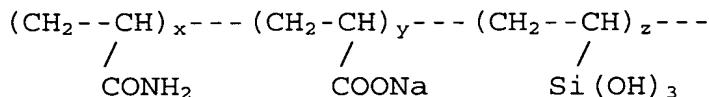
where:

$x = 1 - 99\%$, $y = 1 - 99\%$, $z = 0.5 - 20\%$ and

M = Na, K, NH₄; and

R" = H, C1-C3 alkyl, aryl, Na, K or NH₄.

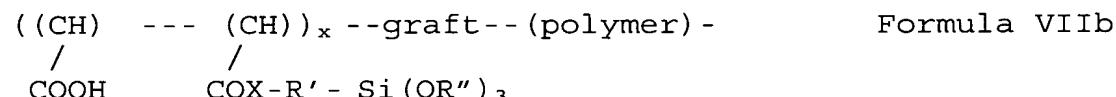
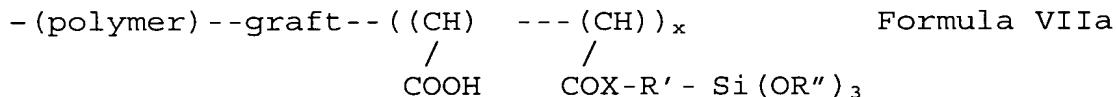
5. The polymer for use in the reduction of aluminosilicate containing scale according to the formula:



where:

$$x = 1 - 99\%, \quad y = 1 - 99\%, \quad z = 0.5 - 20\%.$$

6. A polymer for use in the reduction of aluminosilicate containing scale, wherein the polymer is a graft copolymer of formula a or formula b:



where $x = 0.1 - 99\%$ (as percentage of monomer units in the polymer) and

R' = C1-C10 alkyl, or aryl and

R" = H, C1-C3 alkyl, aryl, Na, K or NH₄.

7. The polymer for use in the reduction of aluminosilicate containing scale according to claim 6 according to the formula:

